

Title (en)

NEGATIVE POLE ACTIVE SUBSTANCE, METHOD FOR PRODUCING SAME, AND NONAQUEOUS SECONDARY BATTERY

Title (de)

NEGATIVPOL-AKTIVMATERIAL, VERFAHREN ZUR HERSTELLUNG DAVON UND NICHTWÄSSRIGE SEKUNDÄRBATTERIE

Title (fr)

SUBSTANCE ACTIVE DE PÔLE NÉGATIF, SON PROCÉDÉ DE PRODUCTION, ET BATTERIE SECONDAIRE NON AQUEUSE

Publication

EP 3503269 A1 20190626 (EN)

Application

EP 17841273 A 20170609

Priority

- JP 2016159532 A 20160816
- JP 2017021510 W 20170609

Abstract (en)

A negative-electrode active material 10 is constituted by a particle containing a core 11 and a coat layer 14 coating at least a part of a surface of the core 11. The core 11 is made of a nickel silicide-based material and a silicon oxide-based material, and the coat layer 14 is made of a nickel silicate-based material.

IPC 8 full level

H01M 4/36 (2006.01); **H01M 4/38** (2006.01); **H01M 4/48** (2010.01)

CPC (source: EP US)

H01B 1/06 (2013.01 - US); **H01M 4/045** (2013.01 - US); **H01M 4/0471** (2013.01 - EP US); **H01M 4/131** (2013.01 - US); **H01M 4/134** (2013.01 - US); **H01M 4/1391** (2013.01 - EP US); **H01M 4/1395** (2013.01 - EP US); **H01M 4/36** (2013.01 - US); **H01M 4/364** (2013.01 - EP US); **H01M 4/366** (2013.01 - EP); **H01M 4/38** (2013.01 - US); **H01M 4/386** (2013.01 - EP); **H01M 4/48** (2013.01 - US); **H01M 4/525** (2013.01 - EP); **H01M 10/0525** (2013.01 - EP US); **H01M 2004/027** (2013.01 - EP US); **H01M 2220/20** (2013.01 - US); **H01M 2220/30** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3503269 A1 20190626; **EP 3503269 A4 20200311**; **EP 3503269 B1 20210804**; CN 109565043 A 20190402; CN 109565043 B 20220301; JP 6760382 B2 20200923; JP WO2018034045 A1 20190613; US 10804532 B2 20201013; US 2019181433 A1 20190613; WO 2018034045 A1 20180222

DOCDB simple family (application)

EP 17841273 A 20170609; CN 201780049899 A 20170609; JP 2017021510 W 20170609; JP 2018534277 A 20170609; US 201916274841 A 20190213